

IN THE CLAIMS:

Please cancel claims ³ and ¹⁴⁻¹⁶ without prejudice or disclaimer, amend claims 1-2, 4-13, and 17-19, and add a new claim 20 as follows:

1. (Currently Amended) A chemical sensor ~~comprises~~ comprising:
 a planer baseplate;
 a deposition film of a non-gold metal arranged in a lattice on the baseplate;
 a gold deposition film formed over the deposition film of a non-gold metal formed on the baseplate; and
 a plurality of particles attached to the gold deposition film on any one of a first region where the deposition film of a non-gold metal is formed thereunder and a second region where the deposition film of a non-gold metal is not formed thereunder, wherein biochemical probes are immobilized to the particles each of which surface is attached with substantially the same number of biochemical probes to be attached with at least one kind of substances of interest in a specimen, and a planar baseplate with a plurality of sections arranged separately from each other and each of which is fixed with said particles, wherein density of said particles in each of said sections is substantially the same.
2. (Currently Amended) The chemical sensor according to claim 1, wherein ~~one layer of~~ said plurality of particles makes one layer ~~is fixed in each of said sections.~~
3. (Cancelled)
4. (Currently Amended) The chemical sensor according to claim ~~3~~ 1, wherein ~~said metal~~ the deposition film of a non-gold metal is ~~comprises~~ one of Ti, Cu, and Co, and said plurality of ~~sections are~~ particles formed on ~~each region where said~~ the gold deposition film of the second region ~~is not overlapped with said metal deposition film.~~
5. (Currently Amended) The chemical sensor according to claim ~~3~~ 1, wherein ~~said metal~~ the deposition film of a non-gold metal is ~~comprises~~ one of Ag and Cr, and said plurality of ~~sections are~~ particles formed on ~~each region where said~~ the gold

deposition film of the first region ~~overlaps with said metal deposition film.~~

6. (Cancelled)

7. (Currently Amended) The chemical sensor according to claim 31, wherein regions where the plurality of particles are formed make into sections, one layer of said plurality of particles is fixed in each of said sections.

8. (Currently Amended) The chemical sensors according to claim 31, wherein regions where the plurality of particles are formed make into sections, ~~and said probes of different types of biochemical probes are caught in each of said plurality of immobilized to the particles are fixed on in each of said sections.~~

9. (Currently Amended) A biochemical testing system using the biochemical sensor according to claim 31.

10. (Currently Amended) The chemical sensor according to claim 31, wherein the particles are made of glass, silicon, or polymer materials.

11. (Currently Amended) The chemical sensor according to claim 31, wherein a dimension of the particles is limited by a sensitivity of equipment for testing the particles and a desired number of the probes to be attached to each of the particles.

12. (Currently Amended) A method for manufacturing a chemical sensor testing at least one substance of interest in a specimen with biochemical probes, comprising:
 ~~attaching the substance of interest to the probes;~~
 attaching the biochemical probes to each surface of a plurality of particles;
 providing a planar baseplate;
 ~~forming with a plurality of sections defined by a deposition film of a non-gold metal arranged in a lattice on one surface of the baseplate;~~ and
 forming a gold deposition film formed over the deposition film of a non-gold metal on whole surface of the baseplate including regions covered by said metal

~~deposition film; and~~

~~fixing attaching the plurality of particles attached with the probes to the gold deposition film of any one of a first region where the deposition film of a non-gold metal is formed thereunder and a second region where the deposition film of a non-gold metal is not formed thereunder to the sections such that density of said particles in each of said sections is substantially the same; and~~

~~testing the substance of interest by testing the particles on the sections.~~

13. (Currently Amended) The method ~~for testing substance of interest in a specimen with biochemical probes~~ according to claim 12, wherein the step of forming the plurality of particles occurs after the step of attaching the probes whereby the probes are attached to particles before the particles are fixed to the sections of the baseplate.
- 14-16. (Cancelled)
17. (Currently Amended) The method ~~for testing substance of interest in a specimen with biochemical probes~~ according to claim 12, wherein regions where the plurality of particles are formed make sections, whereby each different types of the biochemical probes are immobilized to the particles in attached in a different said sections.
18. (Currently Amended) The method ~~for testing substance of interest in a specimen with biochemical probes~~ according to claim 12, wherein regions where the plurality of particles are formed make sections, whereby only one type of the biochemical probes are immobilized to the particles attached in each of said sections with a different density.
19. (Currently Amended) A method for marketing a chemical sensor ~~for a testing substance of interest in a specimen with biochemical probes~~, comprising:
- providing a chemical sensor having a planer baseplate; a deposition film of a non-gold metal arranged in a lattice on the baseplate; a gold deposition film formed over the deposition film of a non-gold metal formed on the baseplate; and a plurality of particles attached to the gold deposition film on any one of a first region where the deposition film of a non-gold metal is formed thereunder and a second region where the deposition film

of a non-gold metal is not formed thereunder, wherein biochemical probes are immobilized to the particles, and regions where the plurality of particles are formed make into sections ~~the probes to be attached with a substance of interest in the specimen and are attached to each surface of a plurality of particles, the particles are fixed to sections on a planar baseplate such that density of said particles in each of said sections is substantially the same, the sections are defined by a deposition film of a non gold metal arranged in a lattice and a gold deposition film formed over the whole surface of the baseplate including the region of said metal deposition film; and~~

marketing said chemical sensor together with an electronic medium storing data of a number of said particles fixed per unit area in each of said sections.

20. (New) The chemical sensor according to claim 1, wherein regions where the plurality of particles are formed make into sections, a density of said particles in each of said sections is substantially the same.
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